

Robin Chhabra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7192206/publications.pdf>

Version: 2024-02-01

18
papers

198
citations

1306789

7
h-index

1199166

12
g-index

18
all docs

18
docs citations

18
times ranked

92
citing authors

#	ARTICLE	IF	CITATIONS
1	On the guidance, navigation and control of in-orbit space robotic missions: A survey and prospective vision. <i>Acta Astronautica</i> , 2021, 184, 70-100.	1.7	76
2	Holistic system modeling in mechatronics. <i>Mechatronics</i> , 2011, 21, 166-175.	2.0	25
3	A generalized exponential formula for forward and differential kinematics of open-chain multi-body systems. <i>Mechanism and Machine Theory</i> , 2014, 73, 61-75.	2.7	21
4	A Unified Approach to Input-output Linearization and Concurrent Control of Underactuated Open-chain Multi-body Systems with Holonomic and Nonholonomic Constraints. <i>Journal of Dynamical and Control Systems</i> , 2016, 22, 129-168.	0.4	12
5	Multi-impulse smooth trajectory design for long-range rendezvous with an orbiting target using multi-objective non-dominated sorting genetic algorithm. <i>Aerospace Science and Technology</i> , 2022, 120, 107285.	2.5	9
6	A holistic concurrent design approach to robotics using hardware-in-the-loop simulation. <i>Mechatronics</i> , 2013, 23, 335-345.	2.0	8
7	Nonholonomic dynamical reduction of open-chain multi-body systems: A geometric approach. <i>Mechanism and Machine Theory</i> , 2014, 82, 231-255.	2.7	8
8	Symplectic reduction of holonomic open-chain multi-body systems with constant momentum. <i>Journal of Geometry and Physics</i> , 2015, 89, 82-110.	0.7	7
9	A holistic approach to concurrent engineering and its application to robotics. <i>Concurrent Engineering Research and Applications</i> , 2014, 22, 48-61.	2.0	6
10	Concurrent synthesis of robot manipulators using Hardware-in-the-loop Simulation. , 2009, ,		5
11	Dynamical reduction and output-tracking control of the Lunar Exploration Light Rover (LELR). , 2016, ,		5
12	Reduction of Hamiltonian Mechanical Systems With Affine Constraints: A Geometric Unification. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, ,	0.7	5
13	Linguistic mechatronics. , 2008, ,		3
14	Explicit Recursive Track-to-Track Fusion Rules for Nonlinear Multi-Sensor Systems. , 2022, 6, 253-258.		3
15	Roll dynamics of long combination semi-trailers with steerable axles. <i>International Journal of Vehicle Performance</i> , 2022, 8, 224.	0.2	3
16	Elastica as a dynamical system. <i>Journal of Geometry and Physics</i> , 2016, 110, 348-381.	0.7	1
17	Robust Optimal Output-Tracking Control of Constrained Mechanical Systems With Application to Autonomous Rovers. <i>IEEE Transactions on Control Systems Technology</i> , 2023, 31, 83-98.	3.2	1
18	A linguistic approach to concurrent design. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 28, 1985-2001.	0.8	0